

U.S. DEPARTMENT OF COMMERCE

DANIEL C. ROPER, Secretary

BUREAU OF STANDARDS

LYMAN J. BRIGGS, Director

HOSIERY LENGTHS

COMMERCIAL STANDARD CS46-33

[Issued December 20, 1933]

Effective Date, July 1, 1933



A RECORDED STANDARD OF THE INDUSTRY

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1933

PROMULGATION STATEMENT

Agreeable to a request of the National Association of Hosiery and Underwear Manufacturers, a general conference of manufacturers, distributors, and users adopted the Recommended Commercial Standard for Hosiery Lengths. The industry has since accepted and approved for promulgation by the Department of Commerce through the Bureau of Standards the commercial standard as shown herein.

The standard became effective July 1, 1933.

Promulgation recommended.

I. J. FAIRCHILD,
Chief, Division of Trade Standards.

Promulgated.

LYMAN J. BRIGGS,
Director, Bureau of Standards.

Promulgation approved.

DANIEL C. ROPER,
Secretary of Commerce.

HOSIERY LENGTHS

COMMERCIAL STANDARD CS46-33

GENERAL

1. *Purpose.*—The purpose is to provide standard methods of measurement and standard measurements for the guidance of producers, distributors, and users in order to eliminate confusion resulting from a diversity of measurements and methods and to provide a uniform basis for guaranteeing full length.

2. *Application.*—The methods and measurements given herein are applicable to finished hosiery as delivered by the manufacturer.

METHOD OF MEASURING—GENERAL

3. The hosiery to be measured is laid out without tension on a smooth, flat surface so that creases and wrinkles will not affect the measurements.

4. *Accuracy.*—Measurements are taken to the nearest one eighth inch.

METHOD OF MEASURING LENGTH OF LADIES' HOSIERY

The selected method for measuring the length of ladies' hosiery is shown diagrammatically in figure 1. It is as follows:

Lay the hosiery on a flat surface. Place a ruler so that it touches the lower end of the heel gore and the curve formed at the ankle. The length is the distance from the bottom of the heel A to the top of the hosiery B as located by this line. (For full-fashioned hosiery this line of length shall be determined by laying the ruler so that it touches the curve at the ankle and is parallel to the front line of the hosiery (fig. 1).)

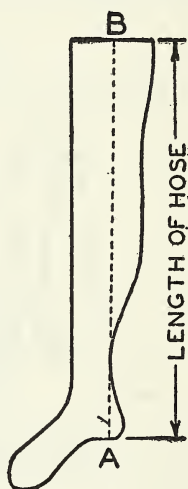


FIGURE 1.—
Ladies' hose

LENGTH OF LADIES' HOSIERY

Nonstandard lengths.—Ladies' hosiery in lengths other than standard, carry a significant mark, generally on the container, to indicate the fact that they are either longer or shorter than standard.

Full-fashioned and seamless.—The standard length of ladies' full-fashioned and seamless hosiery is 30 inches in all sizes and this length will be furnished when not otherwise specified. Other lengths are available as required. Tolerance for all lengths, plus or minus 1 inch.

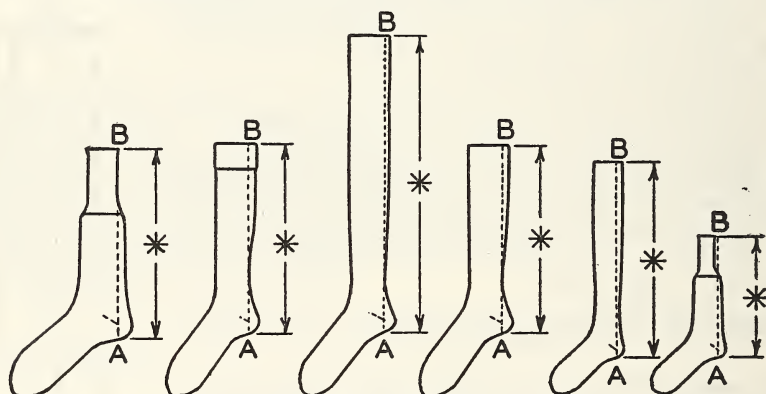
Ribbed cotton.—The standard length of ladies' ribbed cotton hosiery is 28 inches in all sizes and this length will be furnished when not

otherwise specified. Other lengths are available as required. Tolerance for all lengths, plus or minus 1 inch.

METHOD OF MEASURING LENGTH OF MENS' CHILDRENS' AND INFANTS' HOSIERY

1. Men's hosiery.
2. Boys' golf hose.
3. Children's and misses' ribbed hosiery.
4. Children's $\frac{5}{8}$ flat knit and $\frac{7}{8}$ hosiery.
5. Infants' ribbed hosiery.
6. Infants' and children's socks.

Lay the hosiery (or sock) on a flat surface. Place a ruler so that it passes through the heel gore and is parallel to the ribs on the ribbed portion of the hosiery. If the hosiery has been boarded properly, the ruler will be parallel to the front line of the hosiery. If this is not so, adjust the ruler so that it is parallel to the front line of the



* — LENGTH OF HOSE

MEN'S
HOSIERY

BOYS'
GOLF
HOSE

CHILDREN'S
AND MISSES
RIBBED
HOSIERY

CHILDREN'S
5/8 FLAT
AND 7/8
HOSIERY

INFANTS'
RIBBED
HOSIERY

INFANTS'
AND
CHILDREN'S
SOCKS

FIGURE 2.

hosiery. The length is the distance from the bottom of the heel A to the top of the hosiery B (fig. 2).

STANDARD LENGTHS

MEN'S HOSIERY

Size	Standard length	Tolerance
	<i>Inches</i>	<i>Inch</i>
9.....	14	$\pm\frac{1}{2}$
9½.....	14	$\pm\frac{1}{2}$
10.....	14	$\pm\frac{1}{2}$
10½.....	14½	$\pm\frac{1}{2}$
11.....	14½	$\pm\frac{1}{2}$
11½.....	14½	$\pm\frac{1}{2}$
12.....	14½	$\pm\frac{1}{2}$

BOYS' GOLF HOSE

Lengths are based on the number of rib knitting machine needles and cylinder sizes indicated.

Size	Number of needles	Size of cylinder (diameter)	Standard length	Tolerance
		<i>Inches</i>	<i>Inches</i>	<i>Inch</i>
7- 7½-----	100-130	3	13½	±½
8- 8½-----	120-140	3¼	14½	±½
9- 9½-----	130-150	3½	16	±½
10-10½-----	140-160	3¾	17	±½
11-11½-----	150-170	4	18	±½

The measurements for boys' golf hose are based on cotton, mercerized cotton, and cotton with wool content up to 50 percent, and do not apply to boys' cut and sewed golf hose.

CHILDREN'S AND MISSES' RIBBED HOSIERY

Lengths are based on the number of machine needles and cylinder sizes indicated.

Size	Number of needles	Size of cylinder (diameter)	Standard length	Tolerance
		<i>Inches</i>	<i>Inches</i>	<i>Inch</i>
5-5½-----	240-260	3½	15	±½
6-6½-----	260-280	3½	18	±½
7-7½-----	280-300	3¾	21	±½
8-8½-----	300-320	3¾	24	±½
9-9½-----	320-340	4	27	±½
10-----	340-360	4	28	±½

The measurements for children's and misses' ribbed hosiery are based on cotton, mercerized cotton, rayon, rayon plated, rayon and silk, and all mixtures of the above with wool content not over 25 percent; the wool content to be expressed as the percentage of the weight of the stocking.

CHILDREN'S ¾ HOSIERY, FLAT KNIT

Lengths are based on the number of machine needles and cylinder sizes indicated.

Size	Number of needles	Size of cylinder (diameter)	Standard length	Tolerance
		<i>Inches</i>	<i>Inches</i>	<i>Inch</i>
6-6½-----	140-160	2¾	10	±½
7-7½-----	150-170	2¾	11	±½
8-8½-----	160-180	3	12½	±½
9-9½-----	170-190	3¼	13½	±½
10-----	180-200	3¼	14½	±½

The measurements for children's $\frac{5}{8}$ hosiery, flat knit, are based on cotton, mercerized cotton, rayon, rayon plated, rayon and silk, and all mixtures of the above with wool content not over 25 percent; the wool content to be expressed as the percentage of the weight of the stocking.

CHILDREN'S $\frac{5}{8}$ HOSIERY

Lengths are based on the number of machine needles and cylinder sizes indicated.

Size	Number of needles	Size of cylinder (diameter)	Standard length	Tolerance
		<i>Inches</i>	<i>Inches</i>	<i>Inch</i>
6-6 $\frac{1}{2}$ -----	170-190	2 $\frac{3}{4}$	11	$\pm\frac{3}{4}$
7-7 $\frac{1}{2}$ -----	180-200	3	12	$\pm\frac{3}{4}$
8-8 $\frac{1}{2}$ -----	190-210	3 $\frac{1}{4}$	13 $\frac{1}{2}$	$\pm\frac{3}{4}$
9-9 $\frac{1}{2}$ -----	200-220	3 $\frac{3}{4}$	14 $\frac{1}{2}$	$\pm\frac{3}{4}$
10-10 $\frac{1}{2}$ -----	210-230	3 $\frac{1}{2}$	15 $\frac{1}{2}$	$\pm\frac{3}{4}$

The measurements for children's $\frac{7}{8}$ hosiery are based on cotton, mercerized cotton, rayon, rayon plated, rayon and silk, and all mixtures of the above with wool content not over 25 percent; the wool content to be expressed as the percentage of the weight of the stocking.

INFANTS' RIBBED HOSIERY

Lengths are based on the number of machine needles and cylinder sizes indicated.

Size	Number of needles	Size of cylinder (diameter)	Standard length	Tolerance
		<i>Inches</i>	<i>Inches</i>	<i>Inch</i>
3-----	180-200	2 $\frac{3}{4}$	7	$\pm\frac{1}{2}$
3 $\frac{1}{2}$ -----	180-200	2 $\frac{3}{4}$	8	$\pm\frac{1}{2}$
4-----	220-240	3	10	$\pm\frac{1}{2}$
4 $\frac{1}{2}$ -----	220-240	3	11	$\pm\frac{1}{2}$
5-----	240-260	3 $\frac{1}{4}$	12	$\pm\frac{1}{2}$
5 $\frac{1}{2}$ -----	240-260	3 $\frac{1}{4}$	13 $\frac{1}{2}$	$\pm\frac{1}{2}$
6-----	260-280	3 $\frac{1}{2}$	15	$\pm\frac{1}{2}$
6 $\frac{1}{2}$ -----	260-280	3 $\frac{1}{2}$	16	$\pm\frac{1}{2}$

The measurements for infants' ribbed hosiery are based on cotton, mercerized cotton, rayon, rayon plated, rayon and silk, and all mixtures of the above with wool content not over 25 percent; the wool content to be expressed as the percentage of the weight of the stocking.

INFANTS' AND CHILDREN'S SOCKS

Lengths are based on the number of machine needles and cylinder sizes indicated.

Size	Number of needles	Size of cylinder (diameter)	Standard length	Tolerance
		<i>Inches</i>	<i>Inches</i>	<i>Inch</i>
4-4½-----	120	2¼	5	±½
5-5½-----	140	2¼	6½	±½
6-6½-----	140	2¼	7½	±½
7-7½-----	156	2½	8½	±½
8-8½-----	156	2½	9½	±½
9-9½-----	172	2¾	10½	±½
10-----	200	3	11½	±½

The measurements for infants' and children's socks are based on cotton, mercerized cotton, rayon, rayon plated, rayon and silk, and all mixtures of the above with wool content not over 50 percent; the wool content to be expressed as the percentage of the weight of the stocking.

METHOD OF MEASURING FOLDED CUFF LENGTHS

1. Infants' and children's anklets.
2. Boys' golf hose.
3. Children's ⅝ hosiery.

The length of the cuff shall be measured on the stocking with the cuff folded ready for packing. The stocking shall be laid out flat without tension on a smooth surface. The length of the cuff shall be the distance from the top to the bottom of the folded cuff measured at the center in a line parallel with the front of the stocking.

STANDARD FOLDED CUFF LENGTHS

INFANTS' AND CHILDREN'S ANKLETS (FOLDED RIBBED CUFF LENGTHS)

Size	Standard length	Tolerance
	<i>Inches</i>	<i>Inch</i>
4-4½-----	1¾	±⅛
5-5½-----	1¾	±⅛
6-6½-----	2	±⅛
7-7½-----	2	±⅛
8-8½-----	2¼	±⅛
9-9½-----	2¼	±⅛

BOYS' GOLF HOSE

Size	Standard length	Tolerance
	<i>Inches</i>	<i>Inch</i>
6-6½-----	3	±¼
7-7½-----	3	±¼
8-8½-----	3½	±¼
9-9½-----	3½	±¼
10-10½-----	3½	±¼

CHILDREN'S $\frac{3}{8}$ HOSIERY

Size	Standard length	Tolerance
	<i>Inches</i>	<i>Inch</i>
6-6 $\frac{1}{2}$ -----	2 $\frac{1}{2}$	$\pm\frac{1}{4}$
7-7 $\frac{1}{2}$ -----	3	$\pm\frac{1}{4}$
8-8 $\frac{1}{2}$ -----	3	$\pm\frac{1}{4}$
9-9 $\frac{1}{2}$ -----	3 $\frac{1}{2}$	$\pm\frac{1}{4}$
10-10 $\frac{1}{2}$ -----	3 $\frac{1}{2}$	$\pm\frac{1}{4}$

HISTORY OF PROJECT

The National Association of Hosiery and Underwear Manufacturers on September 9, 1931, presented a specification for men's, women's, and children's hosiery lengths, and requested that it be given consideration by a general conference of manufacturers, distributors, and users of hosiery with a view to its adoption as a commercial standard. This specification was developed, with the cooperation of the industry, by E. M. Schenke, research associate representing the above association.

A general conference was held in Philadelphia on October 29, 1931, at which time the tentative draft of the proposed commercial standard as revised was adopted, with the recommendation that it be circulated to the industry for written acceptance.

This conference also elected a standing committee to review periodically all comments and suggestions leading to the revision of the specification and voted its approval of the certification plan and recommended its use by the industry.

The recommended commercial standard was circulated for acceptance on December 5, 1931, and received the endorsement of a large part of the industry. However, it later developed that there was not full agreement in regard to the measurements for children's hosiery and on January 2, 1932, a questionnaire was circulated to the manufacturers requesting them to recommend measurements for the different sizes and types. In due course this data was received and submitted to the standing committee for comment and such revision as that group thought necessary. In the meantime it was requested that the lengths of ladies' ribbed cotton hosiery be included in the standard and that the length for such hose be specified as 28 inches.

After careful consideration the standing committee approved the lengths of children's hosiery and on January 12, 1933, the revised Recommended Commercial Standard was circulated to the industry for approval. On April 1, 1933, the adoption of the standard was announced.

EFFECTIVE DATE

The standard became effective on July 1, 1933, and agreeably to the wishes of the general conference it will be considered annually by the standing committee for revision.

STANDING COMMITTEE

The conference elected the following standing committee:

MANUFACTURERS

Men's:

- J. W. METTLER (chairman), president Interwoven Stocking Co., New Brunswick, N.J.
 R. W. MOORHEAD, Moorhead Knitting Co., Harrisburg, Pa.
 THEO. FRIEDLANDER, Phoenix Hosiery Co., 114 Buffalo Street, Milwaukee, Wis.
 W. F. CARR, vice president Durham Hosiery Mills, Durham, N.C.

Women's:

- R. E. TILLIS (chairman), vice president Gotham Silk Hosiery Co., Inc., 389 Fifth Avenue, New York, N.Y.
 HUGO HEMMERICH, Berkshire Knitting Mills, Reading, Pa.
 J. H. ZENS, president Milwaukee Hosiery Co., 712 South Pierce Street, Milwaukee, Wis.
 WM. MEYER, Apex Hosiery Co., Fifth and Luzerne Streets, Philadelphia, Pa.
 G. C. ABERLE, treasurer and general manager H. C. Aberle Co., Lippincott, Clearfield and A Streets, Philadelphia, Pa.

Children's:

- J. LEE BAUSHER (chairman), Infant Socks, Inc., 210 Maple Street, Reading, Pa.
 FRANKLIN LANDENBERGER, J. W. Landenberger & Co., Castor Avenue at Kensington Avenue, Philadelphia, Pa.
 R. C. AYCOCK, president Aycock Hosiery Mills Corporation, Chattanooga, Tenn.
 H. C. BELBER, president Sports Wear Hosiery Mills, Inc., Third and Westmoreland Streets, Philadelphia, Pa.

DISTRIBUTORS AND USERS

All types of hosiery:

- T. L. BLANKE, 225 West Thirty-fourth Street, New York, N.Y., representing National Retail Dry Goods Association.
 W. R. WARDLE, vice president Jacob Reed's Sons, 1424-1426 Chestnut Street, Philadelphia, Pa., representing National Association of Retail Clothiers and Furnishers.
 M. F. NAGLE, Ely & Walker Dry Goods Co., St. Louis, Mo., representing Wholesale Dry Goods Institute.
 Miss ARDENIA CHAPMAN, Drexel Institute, Philadelphia, Pa., representing American Home Economics Association.
 Mrs. JOHN A. FRICK, Salisbury House, Allentown, Pa., representing General Federation of Women's Clubs.



ACCEPTANCE OF COMMERCIAL STANDARD

This sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date

DIVISION OF TRADE STANDARDS,
BUREAU OF STANDARDS,
Washington, D.C.

GENTLEMEN: Having considered the statements on the reverse side of this sheet, we accept the Commercial Standard CS46-33 as our standard of practice in the

(Cut on this line) { production ¹
distribution ¹ } of hosiery lengths.
use ¹

We will assist in securing its general recognition and use, and will cooperate with the standing committee to effect revisions of the standard when necessary.

Signature

(Kindly typewrite or print the following lines)

Title

Company

Street address

City and State

¹ Please designate which group you represent by drawing lines through the other two. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval the words "In principle" should be added after the signature.

TO THE ACCEPTOR

The following points are given in answer to the usual questions arising in connection with the acceptance form:

1. Commercial standards are commodity specifications voluntarily established by mutual consent of the industry. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the industry as a whole, their provisions through usage soon become established as trade customs.

2. *The acceptor's responsibility.*—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distribution or consumption of the article in question.

3. *The Department's responsibility.*—The function performed by the Department of Commerce in the establishment of a commercial standard is fourfold; first, to act as an unbiased coordinator to bring all branches of the industry together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard; and fourth, to add all possible prestige to the enterprise by publication and promulgation when accepted by the industry.

When the standard has been indorsed by companies representing a satisfactory majority of production, the success of the project is announced. If, however, in the opinion of the standing committee of the industry or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

ACCEPTORS

Individuals and organizations listed below have indicated in writing, acceptance of this specification as their standard of practice, but such endorsement does not signify that they may not find it necessary to deviate from the standard, or that they guarantee their products to conform to the requirements of this standard.

ASSOCIATIONS

<p>American Business Editors Service, West New York, N.J. (in principle). American Home Economics Association, Washington, D.C. Association of Cotton Textile Merchants, The, New York, N.Y. (in principle). Certified Silk Service, Inc., New York, N.Y.</p>	<p>General Federation of Women's Clubs, Washington, D.C. National Retail Dry Goods Association, New York, N.Y. Philadelphia Textile Manufacturers' Association, Philadelphia, Pa.</p>
--	---

FIRMS

<p>Aberle Co., H. C., Philadelphia, Pa. Alanna Knitting Co., Quakertown, Pa. American Hosiery Co., New Britain, Conn. Anthony Co., H. W., Strausstown, Pa. Apex Hosiery Co., Philadelphia, Pa. Arizona, University of, Tucson, Ariz. (in principle). Asheboro Hosiery Mills, Asheboro, N.C. Ashland Knitting Mills, Ashland, Ala. Athens Hosiery Mills, Athens, Tenn. Atlanta Hosiery Mills, Atlanta, Ga. Atlas Silk Hosiery Co., Paterson, N.J. Auerbach Co., Salt Lake City, Utah. Aycock Hosiery Mills, South Pittsburg, Tenn. Bacon Co., Charles H., Lenoir City, Tenn. Baker-Moise Hosiery Mills, Dallas, Tex. Barkley Woolen Knitting Mills, Cleveland, Ohio. Beaton Co., Inc., J. R., New York, N.Y. Belber Silk Hosiery Co., Philadelphia, Pa. Belle Terre Hosiery Co., Reading, Pa. Bergey Co., M. B., Souderton, Pa. Berkeley Silk Hosiery Co., Paterson, N.J. Berkshire Knitting Mills, Reading and Wyomissing, Pa. Bettersilk Hosiery Mills, Bristol, Va. Beverly Hosiery Mills, Inc., Los Angeles, Calif. Bittner, Hunsicker & Co., Allentown, Pa.</p>	<p>Black Mountain Hosiery Mills, Inc., Black Mountain, N.C. Blackstone Knitting Co., Central Falls, R.I. Blood & Co., Inc., John, Philadelphia, Pa. Bloomsburg Hosiery Mills, Inc., Philadelphia, Pa. Bon Marche, The, Seattle, Wash. Bonsa, H. C., Wausau, Wis. Boonton Full Fashion Hosiery Mills, Boonton, N.J. Brooks Hosiery Mills, Philadelphia, Pa. Brown Co., William, Philadelphia, Pa. Brownhill & Kramer, Inc., Philadelphia, Pa. Browning Hosiery Mills, Chattanooga, Tenn. Bryan Hosiery Mill, Inc., Chattanooga, Tenn. Buck Hosiery Co., The Thomas W., Philadelphia, Pa. Bullock's, Los Angeles, Calif. Burkey Underwear Co., Inc., Hamburg, Pa. Busy Bee Hosiery Co., Inc., Reading, Pa. B. Z. B. Knitting Co., Rockford, Ill. Caesar & Co., H. A., New York, N.Y. (in principle). Cambria Silk Hosiery Co., Philadelphia, Pa. Chambersburg Hosiery Co., Chambersburg, Pa. Champion Knitting Mills, Marietta, Ga., and Chattanooga, Tenn. Chapman Guild, Inc., The, Oneida, N.Y.</p>
---	---

- Chenango Knitting Co., Inc., Sherburne, N.Y.
 Chipman Knitting Mills, Easton, Pa.
 C. & M. Hosiery Mills, Inc., Baltimore, Md.
 Colonial Knitting Mills, Inc., Philadelphia, Pa.
 Columbine Knitting Mills, Inc., Columbia, Miss.
 Concordia Silk Hosiery Co., Inc., Philadelphia, Pa.
 Conewago Textiles, Inc., Elizabethtown, Pa.
 Conrad & Co., Boston, Mass.
 Conrad Hosiery Co., Clifton, N.J.
 Contour Hosiery Mills, Rockford, Ill.
 Cooper, Wells & Co., St. Joseph, Mich.
 Cozzens & Co., Inc., New York, N.Y.
 Crescent Hosiery Mill, Niota, Tenn.
 Cromwell Hosiery Mills, Chattanooga, Tenn.
 Crown Hosiery Mills, Inc., High Point, N.C.
 Cunningham Co., J. E., Washington, D.C.
 Dallas Hosiery Mills, Dallas, Ga.
 Davis & Son, Inc., W. B., Fort Payne, Ala.
 Debonair Full Fashioned Mills, Inc., Cleveland, Tenn.
 Desselberger Knitting Mill, Los Angeles, Calif.
 Dexdale Hosiery Mills, Lansdale, Pa.
 Dobson-Miller Corporation, Pulaski, Va.
 Drexel Institute, Philadelphia, Pa. (in principle).
 Durbin-Mellon Hosiery Co., Williamstown, Pa.
 Durham Hosiery Mills, Durham, N.C.
 Edgerton, Lillian, New York, N.Y. (in principle).
 Elliott Knitting Mills, Inc., Hickory, N.C.
 Elting Bros., New York, N.Y.
 Englewood Manufacturing Co., Englewood, Tenn.
 English Jr. & Co., George, Shamokin, Pa.
 Evenknit Hosiery Mills, Bay City, Mich.
 Fead & Sons, John L., Port Huron, Mich.
 Fedden Bros. Co., Inc., New York, N.Y.
 Filene's Sons Co., Wm., Boston, Mass.
 Fisher-Beck Hosiery Mills, Inc., Kingsport, Tenn.
 Fisher Hosiery Co., Inc., Reading, Pa.
 Forest City Knitting Co., Rockford, Ill.
 Galax Knitting Co., Galax, Va.
 Garden Justice Hosiery Co., Hartford, N.J.
 Garon's Knitting Mills, Duluth, Minn.
 General Hosiery Co., Fort Wayne, Ind.
 Gimbel Bros., Philadelphia, Pa.
 Gimbel Bros., Pittsburgh, Pa.
 Given Co., The John M., New York, N.Y.
 Globe Knitting Works, Grand Rapids, Mich.
 Golden Art Hosiery Co., Nashville, Tenn.
 Gotham Silk Hosiery Co., Inc., New York, N.Y.
 Grauer & Co., F.M., Philadelphia, Pa.
 Gray-Line Hosiery Co., Eddington, Pa.
 Great American Knitting Mills, Inc., Bechtelsville, Pa.
 Greensboro Full-Fashioned Hosiery Mills, Inc., Greensboro, N.C.
 Grey Hosiery Mills, Bristol, Va.
 Guilford Hosiery Mills, Inc., High Point, N.C.
 Hahne & Co., Newark, N.J.
 Haines Hosiery Mills, Inc., Philadelphia, Pa.
 Hancock Knitting Mills, Philadelphia, Pa.
 Hand Knit Hosiery Co., Sheboygan, Wis.
 Harrington & Waring, New York, N.Y.
 Harris Silk Hosiery Co., Springfield, Mass.
 Harron Hosiery Co., Philadelphia, Pa.
 Hayward Hosiery Co., Ipswich, Mass.
 Heyman Co., Inc., Henry O., New York, N.Y.
 Highspire Knitting Co., Highspire, Pa.
 Holston Manufacturing Co., Knoxville, Tenn.
 Hoover Hosiery Co., Concord, N.C.
 H. R. H. Silk Hosiery Mills, Moberly, Mo.
 Hudson Co., The J. L., Detroit, Mich.
 Hudson Silk Hosiery Co., Inc., Charlotte, N.C.
 Infants Socks, Inc., Reading, Pa.
 Indiana Textile Mills Co., Indiana, Pa.
 Integrity Hosiery Co., Philadelphia, Pa.
 International Silk Hosiery, Philadelphia, Pa.
 Interstate Hosiery Mills, Inc., New York, N.Y.
 Interwoven Stocking Co., New Brunswick, N.J.
 Ipswich Mills, Inc., Gloucester, Mass.
 Iris Hosiery Co., Inc., Reading, Pa.
 I.X.L. Hosiery Mill, Robeson, Pa.
 Jacob & Schey, New York, N.Y.
 Jamison & Co., Inc., James, New York, N.Y.
 Jeannette Hosiery Mills, Inc., Elkins Park, Pa.
 Johnson City Mills, Johnson City, Tenn.
 Kahn & Frank, New York, N.Y.
 Kann Sons Co., The S., Washington, D.C.
 Kaufmann's Department Store, Pittsburgh, Pa.

- Kaufman Store, Inc., The, Richmond, Va.
 Kayser & Co., Julius, New York, N.Y.
 Kearns & Son, O. E., High Point, N.C.
 King's Palace, Washington, D.C.
 Kistler & Sons, A. W., E. Stroudsburg, Pa.
 Knit Goods Weekly, New York, N.Y. (in principle).
 Knit Products Corporation, Belmont, N.C.
 K. W. Knitting Mills, Mohnton, Pa.
 Knoxville Knitting Mills Co., Knoxville, Tenn.
 Lake City Hosiery Mills, Inc., Marion, N.C.
 Lambert Hosiery Mills, Inc., Lambertville, N.J.
 Landenberger & Co., J. W., Philadelphia, Pa.
 Lark Hosiery Mills, Inc., Shamokin, Pa.
 Laurel Hosiery Co., Reading, Pa.
 Lawler Hosiery Mills, Carrollton, Ga.
 Leeds Technical College, Leeds, England (in principle).
 Leinbach Bros. Knitting Co., Inc., Reading, Pa.
 Leininger Knitting Co., Inc., Wm. G., Mohnton, Pa.
 Lewis, Lora A., Terre Haute, Ind.
 Liberty Hosiery Mills of Tennessee, Chattanooga, Tenn.
 Lillian Knitting Mills Co., Albemarle, N.C.
 Lincoln Hosiery Corporation, Philadelphia, Pa.
 Love, C. R., Burlington, N.C.
 Lowell Mills Co., Lowell, Mass.
 Lykens Knitting & Manufacturing Co., Lykens, Pa.
 Magnet Mills, Inc., Clinton, Tenn.
 Mammoth Hosiery Mills, Philadelphia, Pa.
 Mandel Bros., Chicago, Ill.
 Martinat Hosiery Mills, Valdese, N.C.
 Mavis Hosiery Co., Inc., New York, N.Y.
 May Company, The, Los Angeles, Calif.
 McAllester Hosiery Mills, Chattanooga, Tenn.
 McCrary Hosiery Mills, Inc., Ashboro, N.C.
 McGaugh Hosiery Mills, Dallas, Tex.
 Meier & Frank Co., Portland, Oreg.
 Meinig Hosiery Co., The, Reading, Pa.
 Melrose Hosiery Mills, High Point, N.C.
 Miller Smith Hosiery Mill, Chattanooga, Tenn.
 Milwaukee Hosiery Co., Milwaukee, Wis.
 Mission Hosiery Mills, Los Angeles, Calif.
 Mock, Judson, Voehringer Co., Inc., Greensboro, N.C., and New York, N.Y.
 Mohawk Hosiery Mills, Burlington, N.C.
 Montgomery Knitting Mills, Summer-ville, Ga.
 Moorhead Knitting Co., Inc., Harrisburg, Pa.
 Mountain Hosiery Corporation, Narrows, Va.
 Mountcastle Knitting Co., Lexington, N.C.
 Muller, Inc., Wm. F., Robesonia, Pa.
 Munsingwear Corporation, Minneapolis, Minn.
 Murphy Co., G. C., McKeesport, Pa.
 Nash & Co., F. C., Pasadena, Calif.
 National Hosiery Mills, New Orleans, La.
 Nebel Co., Inc., Oscar, Hatboro, Pa.
 Nebel Knitting Co., Inc., Charlotte, N.C.
 Nelson Knitting Co., Rockford, Ill.
 New England Hosiery Mills, Providence, R.I.
 New Haven Silk Hosiery Co., W. A. Hill, Receiver, New Haven, Ind.
 Nick-A-Jack Hosiery Mills, Chattanooga, Tenn.
 Nolde & Horst Co., The, Reading, Pa.
 Nomend Hosiery Mills, Philadelphia, Pa.
 North Carolina State College, Raleigh, N.C. (in principle).
 Northmont Hosiery Corporation, Reading, Pa.
 Northwood Hosiery Co., Philadelphia, Pa.
 Novelty Hosiery Mills, Marion, N.C.
 Oakbrook Hosiery Mills, Inc., Reading, Pa.
 Octonek Knitting Co., Seattle, Wash.
 Oppenheim Collins & Co., Philadelphia, Pa.
 Pacolet Knitting Co., Tryon, N.C.
 Paducah Hosiery Mills, Paducah, Ky.
 Parker Co., George A., Philadelphia, Pa.
 Parker Hosiery Mill and Dye Works, Inc., Portsmouth, Va.
 Payton, Albert J., Philadelphia, Pa.
 Penn Hosiery Mills, Inc., Reading, Pa.
 Penn Maid Hosiery Mills, Mohnton, Pa.
 Pennsylvania Knitting Mills Co., Spring Grove, Pa.
 Peters Hosiery Mill, New Cumberland, Pa.
 Phoenix Hosiery Co., Milwaukee, Wis.
 Pitman Manufacturing Co., Laconia, N.H.
 Pohatcong Hosiery Mills, Inc., Washington, N.J.
 Portage Hosiery Co., Portage, Wis.
 Priestler Mills, Inc., Paducah, Ky.

- Princess Royal Hosiery Mills, Inc., Reading, Pa.
- Progressive Silk Manufacturing Co., Amsterdam, N.Y. (in principle).
- Propper-McCallum Hosiery Co., Inc., Northampton, Mass.
- Ragan Knitting Co., Thomasville, N.C.
- Rambo & Regar, Inc., Norristown, Pa.
- Rawlings Manufacturing Co., St. Louis, Mo.
- Reed's Sons, Jacob, Philadelphia, Pa.
- Ripon Knitting Works, Ripon, Wis.
- Ritter Hosiery Co., Inc., Fleetwood, Pa.
- Rivoli Silk Hosiery Co., Plainfield, N.J.
- Robinson Co., J. W., Los Angeles, Calif.
- Rockford Mitten & Hosiery Co., Rockford, Ill.
- Rollins Hosiery Mills, Inc., Des Moines, Iowa.
- Rosedale Knitting Co., Reading, Pa.
- Rugby Knitting Mills, Inc., Buffalo, N.Y.
- Runnymede Mills, Inc., Tarboro, N.C.
- Rydal Mills, Inc., The, Philadelphia, Pa.
- St. Clair Hosiery Mills, Belleville, Ill.
- Sanger Bros., Inc., Dallas, Tex.
- Saucon Hosiery Mill, Coopersburg, Pa.
- Schuster & Co., Inc., Ed., Milwaukee, Wis.
- Schuylkill Valley Mills, Inc., Spring City, Pa.
- Scott-Bartels Co., New York, N.Y.
- Scruggs-Vandervoort-Barney D. G. Co., St. Louis, Mo.
- Seamless Hosiery Cloxing Co., Inc., Union City, N.J. (in principle).
- Sears Roebuck & Co., Chicago, Ill.
- Sellers Hosiery Mills, The, Burlington, N.C.
- Seneca Knitting Mills, Inc., Seneca Falls, N.Y.
- Shaughnessy Knitting Co., Watertown, N.Y.
- Sheertex Hosiery Co., Inc., Woodbury, N.J.
- Sidney Hosiery Mills, Inc., Graham, N.C.
- Siliko Hosiery Co., Philadelphia, Pa.
- Slatedale Knitting Mills, Slatedale, Pa.
- Society Maid Hosiery Mills, Inc., Willow Grove, Pa., and New York, N.Y.
- Southampton Knitting Mills, Inc., Southampton, Pa.
- Southern Illinois Penitentiary, hosiery department, Menard, Ill.
- Spalding Knitting Mills, Griffin, Ga.
- Sport-Wear Hosiery Mills, Philadelphia, Pa.
- Standard Hosiery Mills, Inc., Burlington, N.C.
- Steele Co., Robt. P., New York, N.Y.
- Sterling Hosiery Mills, Inc., Spindale, N.C.
- Stone & Thomas, Wheeling, W.Va.
- Strawbridge & Clothier, Philadelphia, Pa.
- Sudbury, Edward H., New York, N.Y.
- Sulloway Mills, Franklin, N.H.
- Sunrise Knitting Mills, Tacony, Philadelphia, Pa.
- Sweetwater Hosiery Mills, Sweetwater, Tenn.
- S. Y. W. Hosiery Mills, Inc., Burlington, N.C.
- Taylor Son & Co., Wm., Cleveland, Ohio.
- T. & M. Knitting Co., Inc., Wilkes-Barre, Pa.
- Temple Full Fashioned Hosiery Mills, Inc., Temple, Pa.
- Terry Hosiery Mills, High Point, N.C.
- Thalheimer Bros., Richmond, Va.
- Thomas Mills, Inc., High Point, N.C.
- Tilton & Son Co., G. H., Laconia, N.H.
- Treinis Bros., Inc., Brooklyn, N.Y.
- Triple Wear Hosiery Mills, Philadelphia, Pa.
- Triumph Hosiery Mills, Inc., New York, N.Y.
- Trojan Hosiery Mills, Indianapolis, Ind.
- Union Manufacturing Co., Union Point, Ga.
- Unique Knitting Co., Acworth, Ga.
- United Hosiery Mills Corporation, Chattanooga, Tenn.
- Unrivaled Hosiery Mill, Williamstown, Pa.
- Vanity Fair Silk Mills, Reading, Pa.
- Van Raalte Co., New York, N.Y.
- Van Straaten & Havey, Inc., Philadelphia, Pa. (in principle).
- Varina Knitting Co., Inc., Varina, N.C.
- Vermont Hosiery & Machinery Co., Northfield, Vt.
- Victorius & Co., Inc., M. L., New York, N.Y.
- Victor Silk Hosiery Co., New Britain, Pa.
- Villa Rica Hosiery Mills, Villa Rica, Ga.
- Virginia Maid Hosiery Mills, Inc., Pulaski, Va.
- Voorhees & Sons, Inc., J. P., New York, N.Y.
- Waldensian Hosiery Mills, Inc., Valdesa, N.C.
- Walker County Hosiery Mills, LaFayette, Ga.
- Walter Fred Hosiery Mills, Nashville, Tenn.
- Walton Hosiery Mills, Statesville, N.C.
- Wanner, C. A., Fleetwood, Pa.
- Wasson & Co., H. P., Indianapolis, Ind.
- Watkins-Hosiery Mills, Chattanooga, Tenn.
- Wayne Knitting Mills, Fort Wayne Ind., and Chicago, Ill.
- Weiler & Pendleton, Reading, Pa.
- Weinstock, Lubin & Co., Inc., Sacramento, Calif.

Whitehead Hosiery Mills, Inc., Burlington, N.C.	Winsted Hosiery Co., The, Winsted, Conn.
Wilkes Hosiery Mills Co., North Wilkesboro, N.C.	Wiscasset Mills Co., Albemarle, N.C.
Wilson-Western Sporting Goods Co., Chicago, Ill.	Wolfinger Knitting Mills, Reading, Pa.
Windsor Hosiery Mills Co., The, Greencastle, Pa.	Woosley Knitting Mills, Shelbyville, Tenn.
	Wovenright Knitting Co., The, Cleveland, Ohio.

GOVERNMENT

U.S. Department of Agriculture, Bureau of Home Economics, Washington, D.C. (in principle).	U.S. Treasury Department, Washington, D.C.
U.S. Department of Interior, Washington, D.C.	Veterans' Administration, Washington, D.C.
U.S. Marine Corps, Philadelphia, Pa.	War Department, Washington, D.C.



COMMERCIAL STANDARDS

CS No.	Item	CS No.	Item
0-20	The commercial standards service and its value to business.	24-30	Standard screw threads.
1-32	Clinical thermometers (second edition).	25-30	Special screw threads.
2-30	Mopsticks.	26-30	Aromatic red cedar closet lining.
3-28	Stoddard solvent.	27-30	Plate glass mirrors.
4-29	Staple porcelain (all-clay) plumbing fixtures.	28-32	Cotton fabric tents, tarpaulins, and covers.
5-29	Steel pipe nipples.	29-31	Staple seats for water-closet bowls.
6-31	Wrought-iron pipe nipples (second edition).	30-31	Colors for sanitary ware.
7-29	Standard weight malleable iron or steel screwed unions.	31-33	Wood shingles (second edition).
8-33	Gage blanks (second edition).	32-31	Cotton cloth for rubber and pyroxylin coating.
9-33	Builders' template hardware (second edition).	33-32	Knit underwear (exclusive of rayon).
10-29	Brass pipe nipples.	34-31	Bag, case, and strap leather.
11-29	Regain of mercerized cotton yarns.	35-31	Plywood.
12-33	Fuel oils (second edition).	36-33	Fourdrinier wire cloth (second edition).
13-30	Dress patterns.	37-31	Steel bone plates and screws.
14-31	Boys' blouses, button-on waists, shirts and junior shirts.	38-32	Hospital rubber sheeting.
15-29	Men's pajamas.	39-32	Wool and part wool blankets.
16-29	Wall paper.	40-32	Surgeons' rubber gloves.
17-32	Diamond core drill fittings (second edition).	41-32	Surgeons' latex gloves.
18-29	Hickory golf shafts.	42-32	Fiber insulating board.
19-32	Foundry patterns of wood (second edition).	43-32	Grading of sulphonated oils.
20-30	Staple vitreous china plumbing fixtures.	44-32	Apple wraps.
21-30	Interchangeable ground glass joints.	45-33	Douglas fir plywood.
22-30	Builders' hardware (nontemplate).	46-33	Hosiery lengths.
23-30	Feldspar.	47-34	Marking of gold filled and rolled gold plate articles other than watchcases.

NOTE.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice in their industry, may secure copies of the above standards, while the supply lasts, by addressing the Division of Trade Standards, Bureau of Standards, Washington, D.C.

